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MSDS - Material Safety Data Sheet

Product Name: Solder, Silver Bearing (Lead Free)

MSDS No.: 097180 Part Numbers Covered: 097180 097181 097190 097200 I. Basic Information: NFPA Manufacturer: Address: City, ST Zip: Health Reastivity Last Update: 7/8/2002 Specjal **Chemical State:** Liquid X Solid Gas **Chemical Type:** Mixture Pure Health Flanmability Reactivity Pers. Protection II. Ingredients: **OSHA** ACGIH SARA Other CAS No. **Chemical Name SUB Z 313** % Range NTP IARC PEL TLV Limits 12125029 X 10 MG/M: 20 ΝI AMMONIUM CHLORIDE ΝI 7440224 **SILVER** Χ 5 MG/M3 .5 ΝI ΝI 7646857 ZINC CHLORIDE 1 MG/M3 2 MG/M3 NI III. Hazardous Identification: **Hazard Category:** Chronic Acute Fire Pressure Reactive Hazardous Identification Information: NDA IV. First Aid Measures: Route(s) of Entry: INHALATION AND INGESTION

Health Hazards (Acute and Chronic):

IRRITATION MAY RESULT FROM CONTACT. TISSUE DAMAGE MAY RESULT FROM PROLONGED OR REPEATED EXPOSURE. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISK MAY VARY BY INDIVIDUAL. ALWAYS MINIMIZE EXPOSURE AS A PRECAUTION. MUTAGENIC IN LAB ANIMALS.

Signs and Symptoms:

EYES: REDNESS, BURNING, TEARING, BLURRED VISION

SKIN: REDNESS, BURNING, RASH, DRYNESS

INHALATION: HEADACHE, DIZZINESS, DIFFICULTY BREATHING

INGESTION: NAUSEA, VOMITING, CRAMPS

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Medical Conditions Generally Aggravated by Exposure:

ΝI

Emergency and First Aid Procedures:

EYES: FLUSH WITH WATER FOR 15 MINUTES - SEEK MEDICAL ATTENTION SKIN: FLUSH WITH WATER IMMEDIATELY - SEE MEDICAL ATTENTION

INHALATION: REMOVE TO FRESH AIR. SUPPORT RESPIRATION IF REQUIRED - SEEK MEDICAL ATTENTION.

INGESTION: GIVE PLENTY OF WATER - SEEK MEDICAL ATTENTION. NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.

Other Health Warnings:

NI

V. Fire Fighting Measures:

Flash Point: NI Lower Explosive Limit: NI Upper Explosive Limit:

Fire Extinguishing Media: ALL

Special Fire Fighting Procedures:

USE SELF-CONTAINED BREATHING APPARATUS

Unusual Fire and Explosion:

ΝI

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

VACUUM, ABSORB, OR FLUSH INTO A CHEMICAL SEWER. DO NOT USE ANY METHOD WHICH WILL GENERATE DUST.

VII. Handling and Storage:

Precautions to be Taken:

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Other Precautions:

AVOID CONTACT, FUMES, AND DUST.

VIII. Exposure Controls/Personal Protection:

Ventilitation Requirements:

LOCAL EXHAUST PREFERRED, MECHANICAL OK

Personal Protective Equipment:

METAL FUME MASK FOR FUMES ABOVE TLV, IMPERVIOUS PROTECTIVE GLOVES, GOGGLES OR FACE SHIELD, AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO

AVOID CONTACT. WASH AFTER USE. FOLLOW GOOD INDUSTRIAL HYGIENIC PRACTICES.

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Boiling Point: 230 F D Melting Point: NI Evaporation Rate: <1

Vapor Pressure (mm Hg.): NI Vapor Density (AIR = 1): NI

Solubility In Water: APPRECIABLE

Apprearance and Odor: SILVER GREY PASTE, ODORLESS

Other Information:

X. Stability and Reactivity:

Stability:

STABLE

Incompatibility (Materials to Avoid):

OXIDIZING MATERIALS

Decomposition/By Products:

LEAD FUMES, NH4, C12

Hazardous Polymerization:

WILL NOT OCCUR

XL Toxicological Information:

NDA

XII. Ecological Information:

NDA

XIII. Disposal Considerations:

DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

XIV. Transport Information:

XV. Regulatory Information:

NDA

XVI. Other Information: